

FIG. 1 is a schematic diagram of a system 10, including a base station controller (BSC) 26, a network 14, and a mobile station (MS) 12. The BSC 26 is connected to the network 14, which is in turn connected to the MS 12. The MS 12 is also connected to a network 16, which is connected to a network 18. The network 18 is connected to a network 20, which is connected to a network 22. The network 22 is connected to a network 24.

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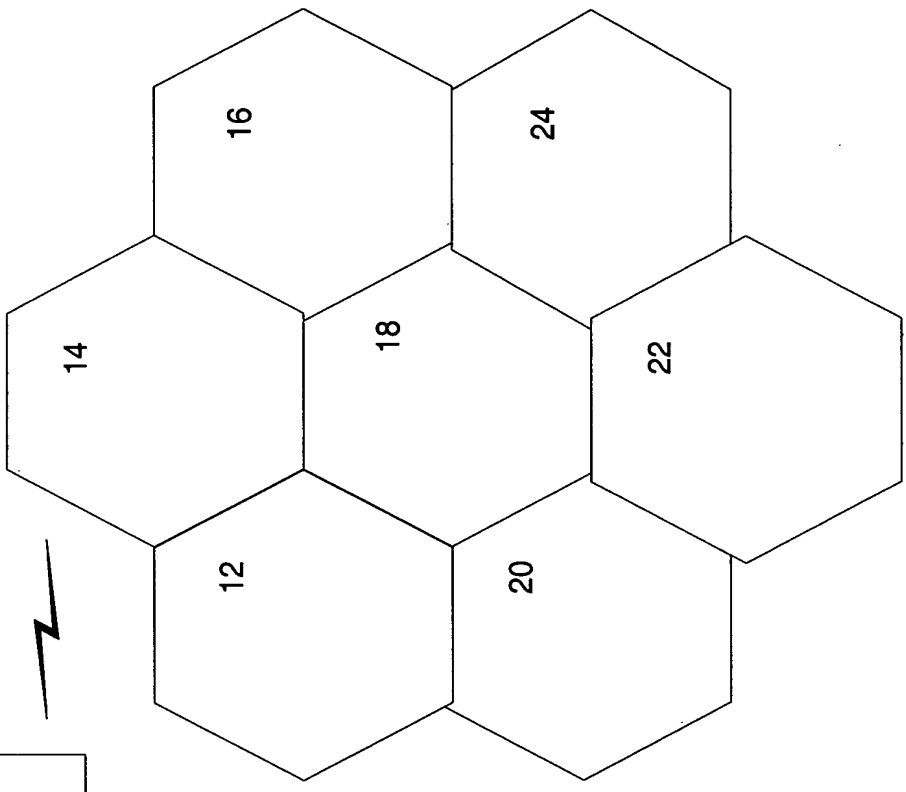
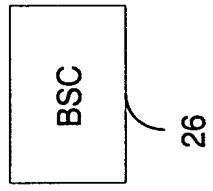


FIG. 1

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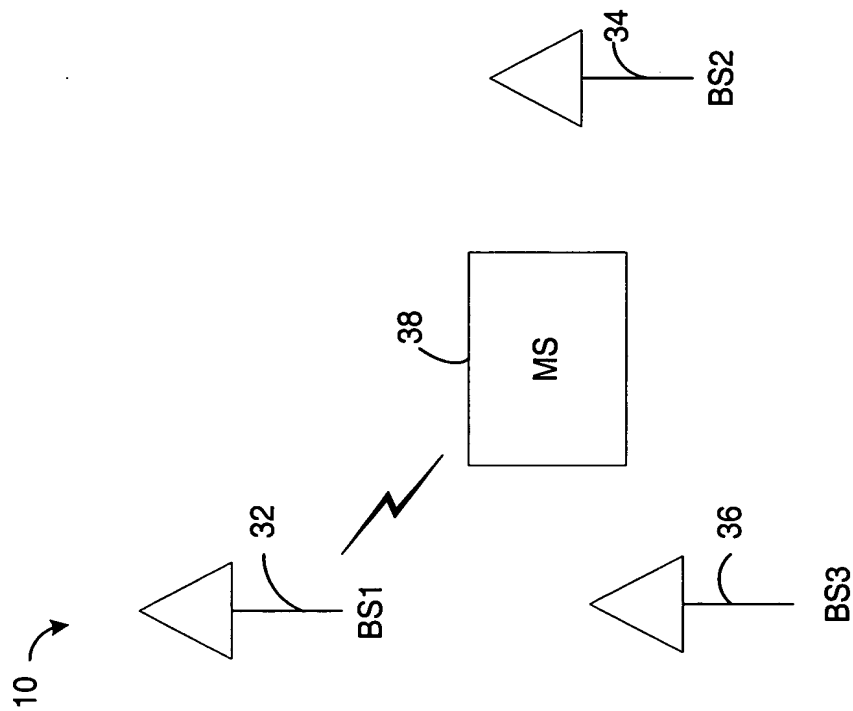


FIG. 2

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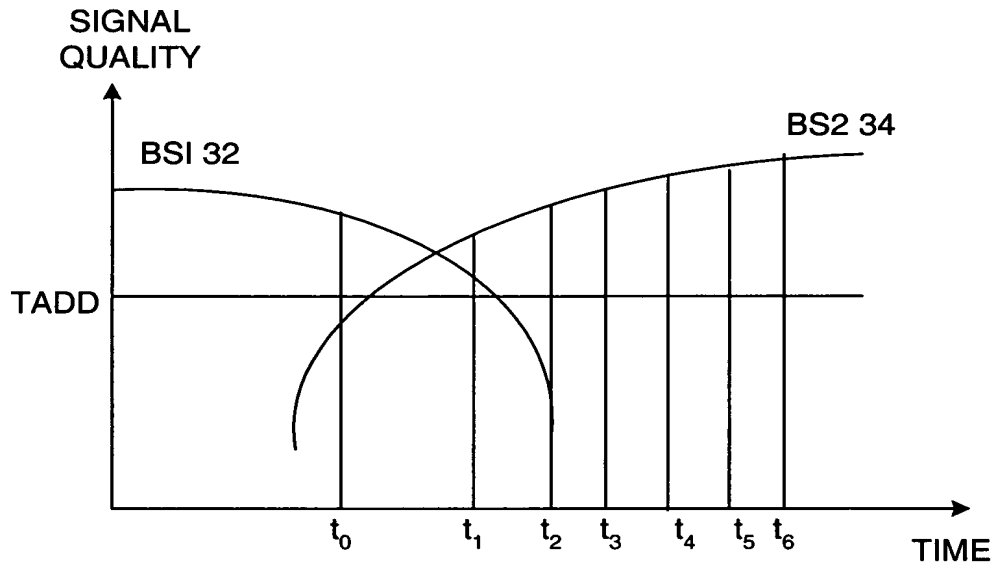


FIG. 3

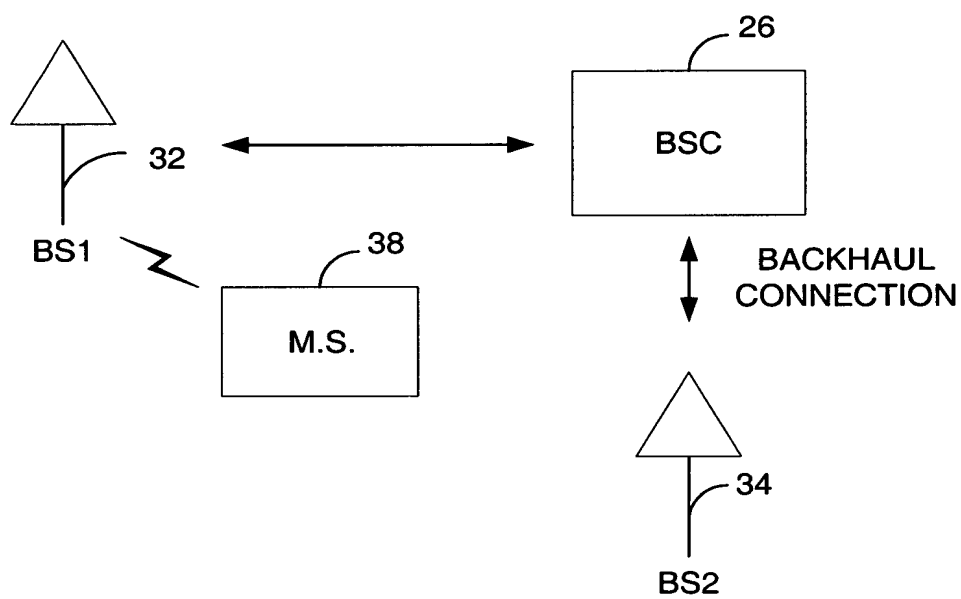


FIG. 4

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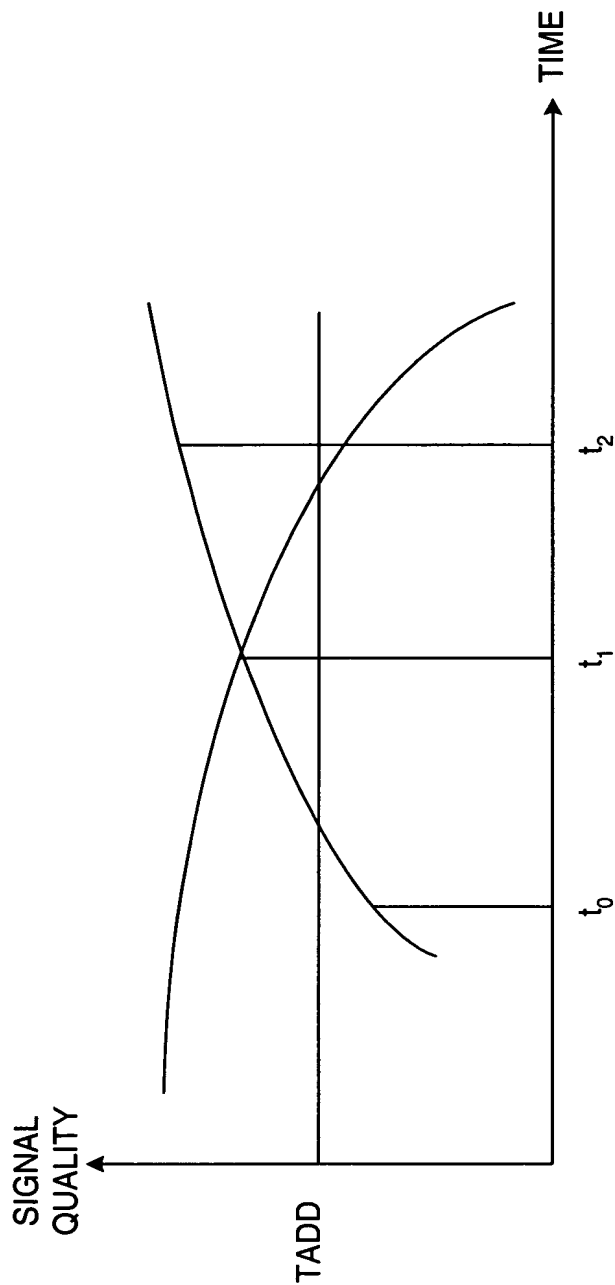


FIG. 5

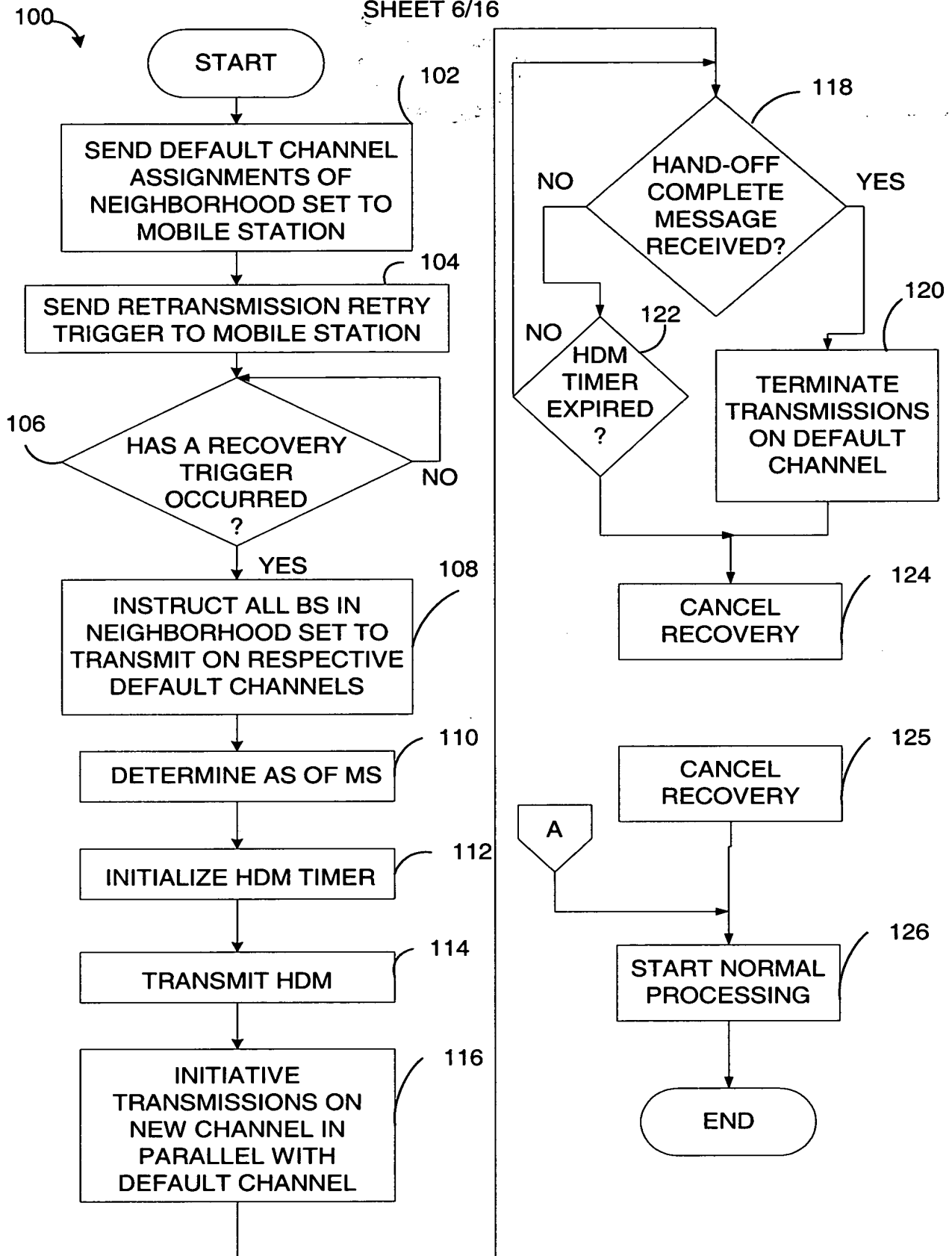
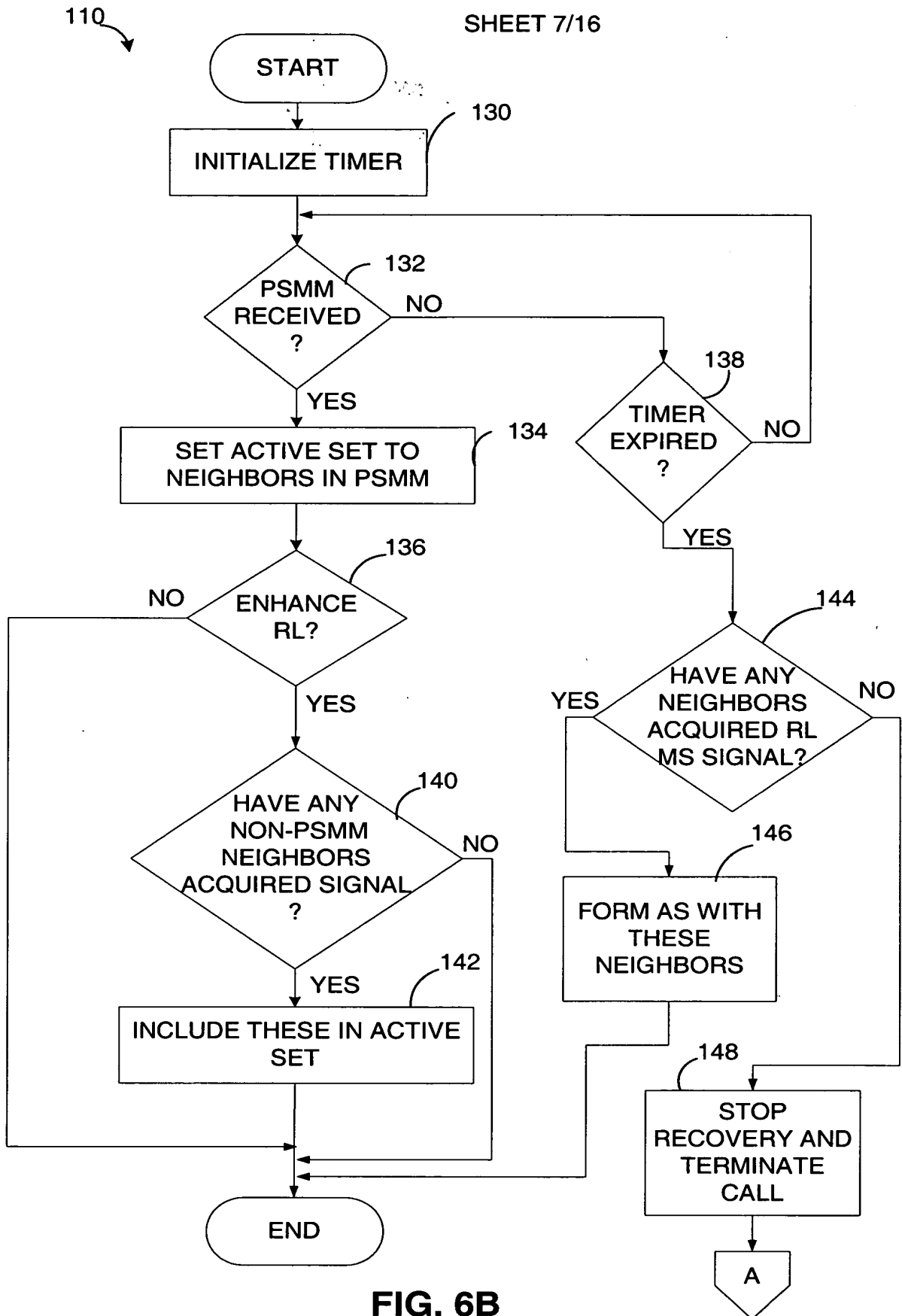
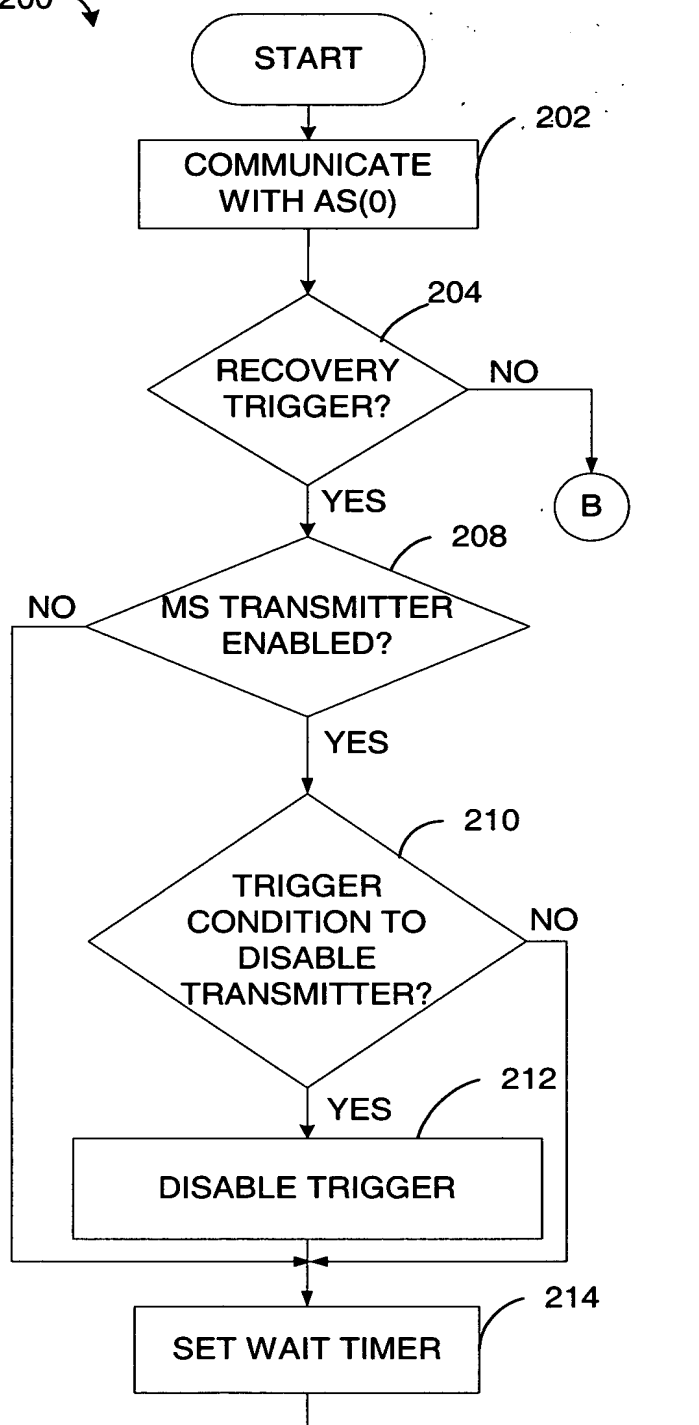


FIG. 6A



200



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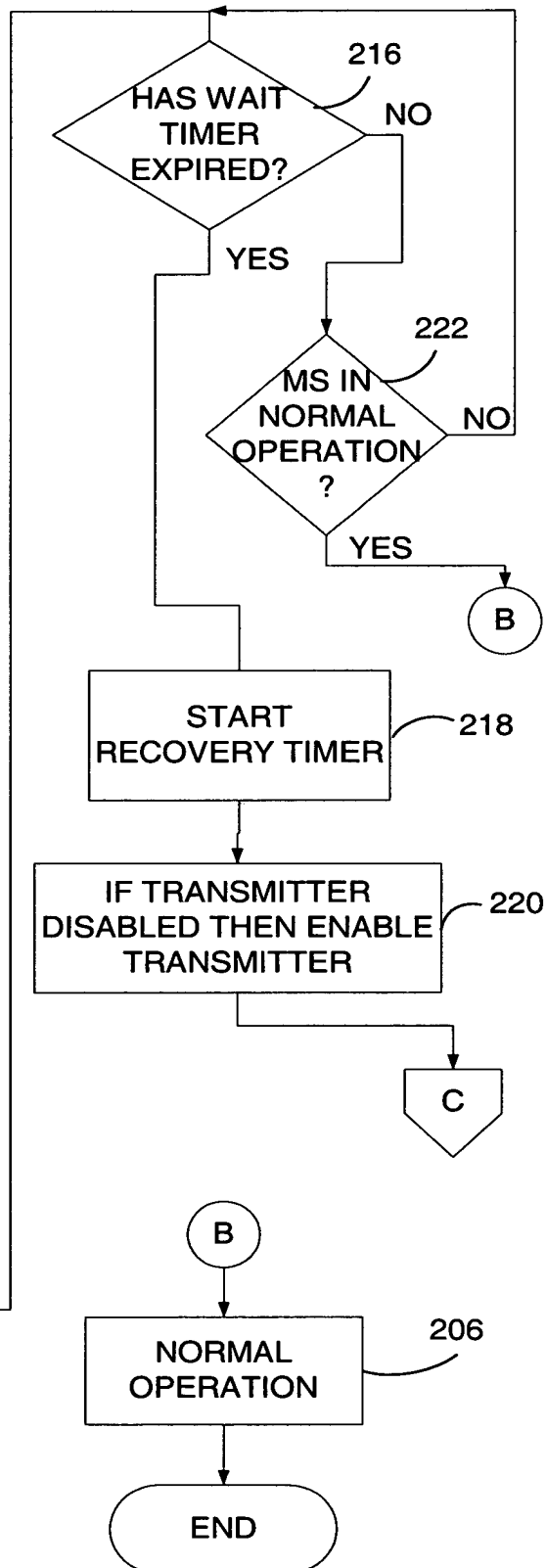


FIG. 7A

200

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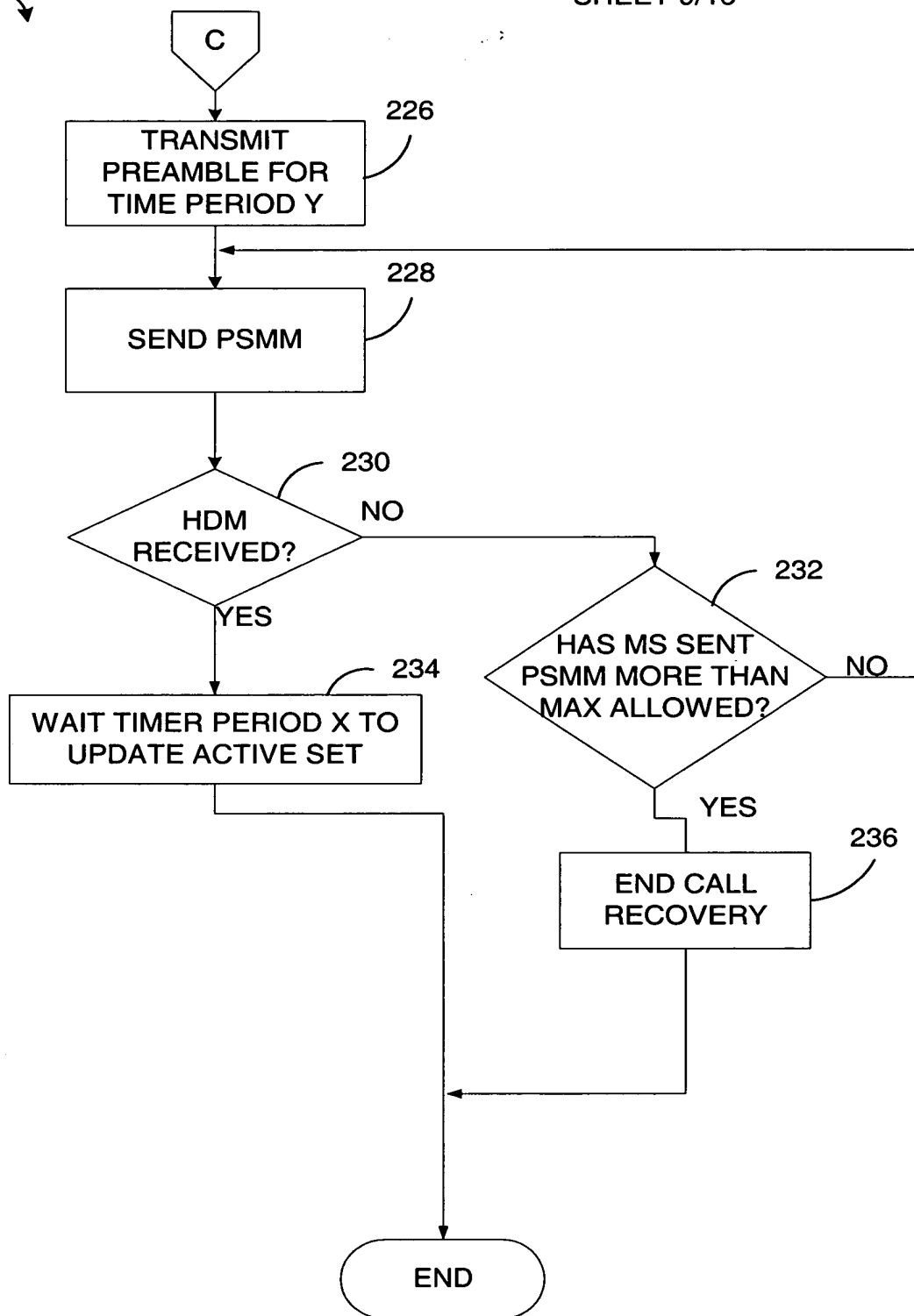


FIG. 7B

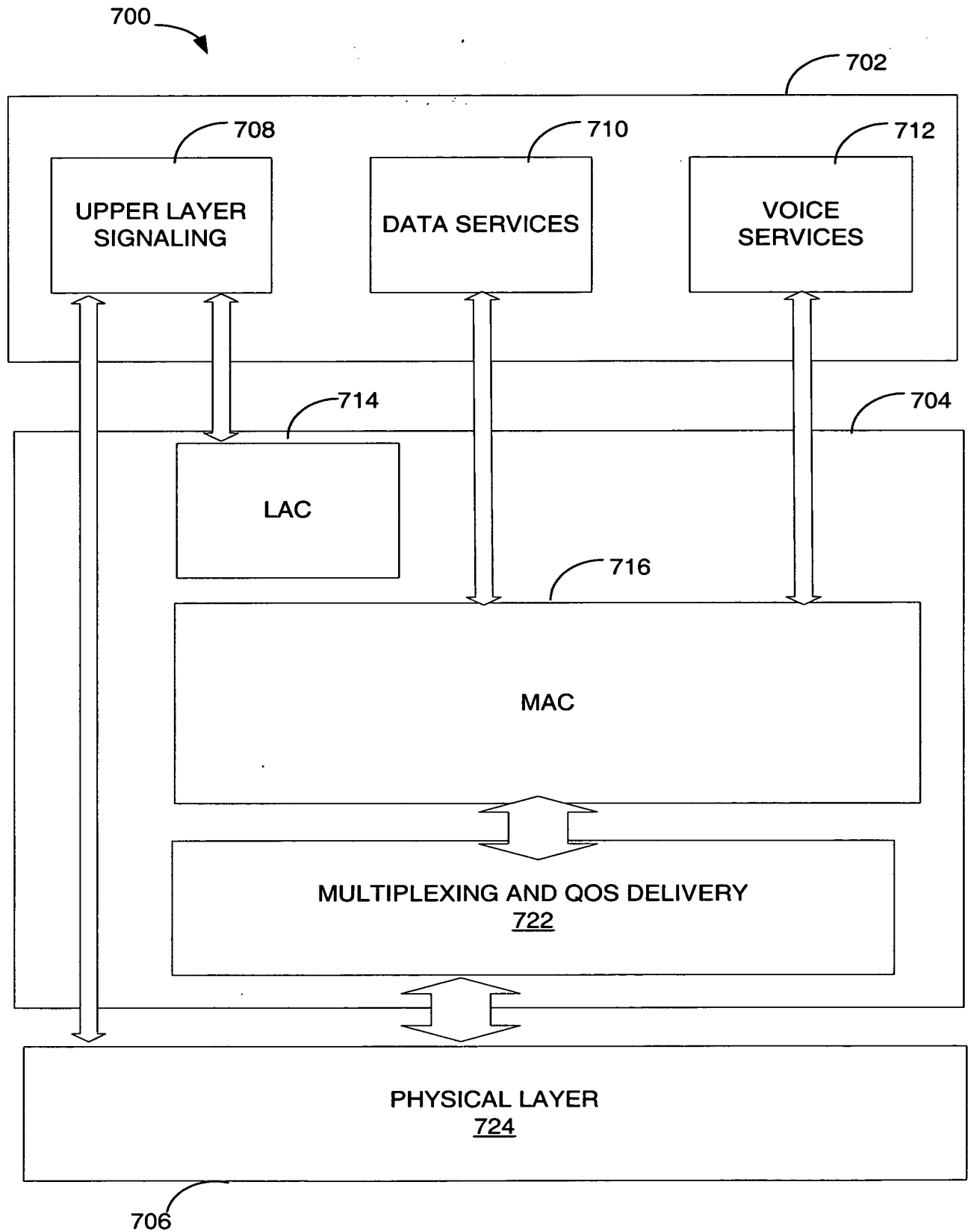


FIG. 8

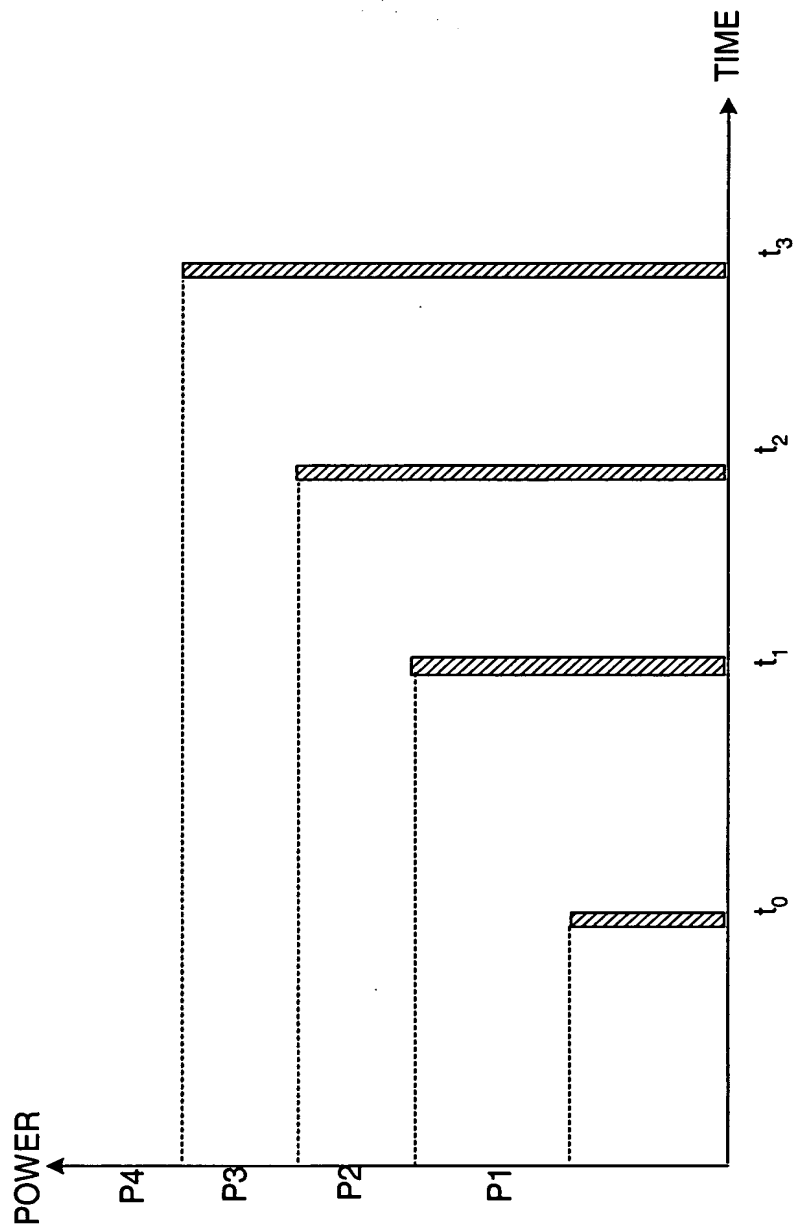


FIG. 10

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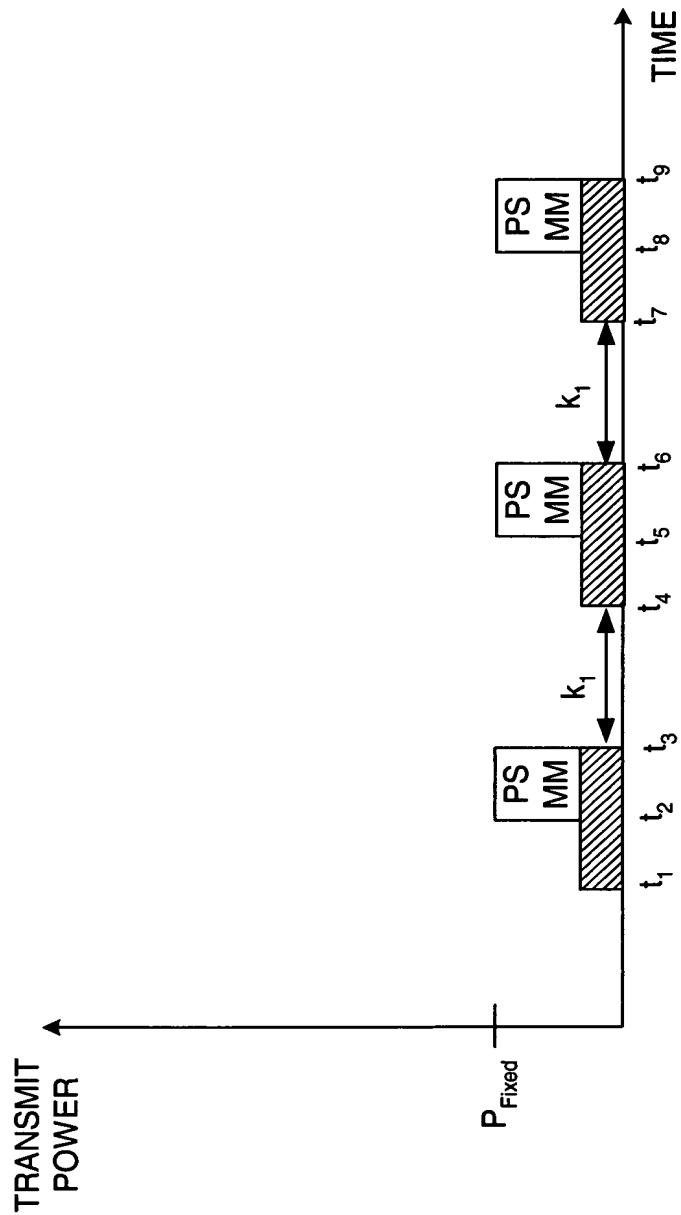


FIG. 12A

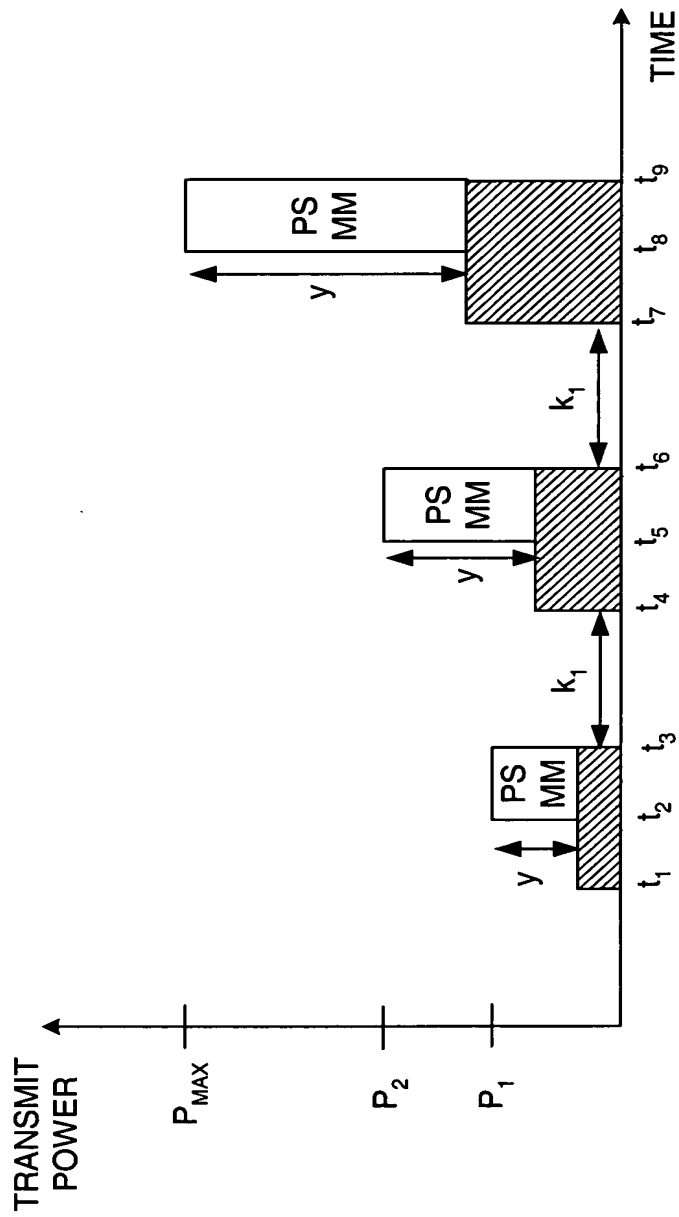


FIG. 12B

400

START

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402

TRANSMIT AT PREVIOUS
TRANSMIT LEVEL

$$(P_{TX} = P_{OLD} + P_{RXOLD} - P_{RXNEW})$$

404

YES

HDM RECEIVED
DURING K_1 ?

NO

RETURN TO NORMAL
TRAFFIC

406

YES

TRANSMIT POWER
LESS THAN P_{MAX} ?

408

NO

INCREASE
TRANSMIT POWER

412

TRANSMIT AT
ADJUSTED POWER
LEVEL

414

TRANSMIT AT P_{MAX}

410

YES

TIME OUT?

NO

TERMINATE CALL
RECOVERY

418

END

FIG. 13

FIG. 13 is a flowchart illustrating a power control method. The process begins at a START node (400) and proceeds to a block (402) labeled "TRANSMIT AT PREVIOUS TRANSMIT LEVEL" with the formula $(P_{TX} = P_{OLD} + P_{RXOLD} - P_{RXNEW})$. A decision diamond (404) asks "HDM RECEIVED DURING K_1 ?". If YES, the process goes to block (406) "RETURN TO NORMAL TRAFFIC" and then to the END node. If NO, a second decision diamond (408) asks "TRANSMIT POWER LESS THAN P_{MAX} ?". If YES, block (412) "INCREASE TRANSMIT POWER" is executed, followed by block (414) "TRANSMIT AT ADJUSTED POWER LEVEL", and then a decision diamond (416) "TIME OUT?". If YES to (416), block (418) "TERMINATE CALL RECOVERY" is executed, and the process returns to the END node. If NO to (416), the process goes to block (410) "TRANSMIT AT P_{MAX} " and then to decision diamond (416). If NO to (408), the process goes directly to block (410). The process then loops back to the decision diamond (404) after block (410).